

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Edward T. H. Yeh Limin Gong

Serial No.: 10/624,945

Filed: July 22, 2003

For: COMPOSITION AND METHODS RELATING TO SENP1-A SENTRIN-

SPECIFIC PROTEASE

Group Art Unit: 1653

Examiner: Unknown

Atty. Dkt. No.: UTSH:245USC1

01/29/2004 LWDNDIM1 00000010 10624945

04 FC:1460

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Gina N. Shishima

I. PETITION UNDER 37 C.F.R. 1.53(e)(2) TO ACCORD FILING DATE AND II. RESPONSE TO NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION FILED UNDER 37 C.F.R. 1.53(b)

MS MISSING PARTS

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

In response to the Notice to File Missing Parts of Nonprovisional Application Filed Under 37 C.F.R. § 1.53(b), dated December 30, 2003, Applicants hereby petition under 37 C.F.R. 1.53(e)(2) for the office to accord a filing date of July 22, 2003, pursuant to 37 C.F.R. 1.53(b), and provide herewith the items requested in the Notice.

I. PETITION

In support hereof Applicant provides the following information:

Applicant filed the instant application on July 22, 2003. A Notice to File Missing Parts of Nonprovisional Application Filed Under 37 C.F.R. § 1.53(b) was mailed December 30, 2003, indicating that a filing date was not accorded to the referenced nonprovisional application for a failure to supply Figure 5C.

Applicant deposited in the U.S. Post Office by Express Mail, the instant application including the Specification, Claims, Abstract, Sequence Listing and Drawings, on July 22, 2003, which included Figure 5C. Attached hereto as Exhibit A is a copy of the Utility Patent Application Transmittal indicating the items submitted to the Patent and Trademark Office on July 22, 2003. Further attached hereto as Exhibit B is a copy of the 10 sheets of drawings, Figures 1-7, as filed on September 13, 2002. Further attached hereto as Exhibit C is a copy of the postcard stamped by the Patent and Trademark Office with the serial number and filing date indicating the items submitted to the Patent and Trademark Office, including 10 sheets of drawings. Further attached hereto as Exhibit D is a copy of the Express Mail Receipt indicating the July 22, 2003 filing date.

Pursuant to 37 C.F.R. § 1.17(h), a check in the amount of \$130.00 is enclosed in payment of the appropriate fee for this petition.

Applicants have therefore shown compliance with the requirements of 37 C.F.R. §1.53(b) in the instant application and respectfully request the office to accord a filing date of July 22, 2003, and to refund the amount of the petition fee of \$130.00 to Fulbright & Jaworski Deposit Account No. 50-1212/UTSH:245USC1.

II. RESPONSE TO NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION FILED UNDER 37 C.F.R. 1.53(b)

In response to the Notice to File Missing Parts of Nonprovisional Application Under 37

C.F.R. § 1.53(b), dated December 30, 2003, there are enclosed herewith:

(a) Copy of the Request for Transfer of Sequence Listing that was previously submitted

with the application at the time of filing, July 22, 2003.

(b) Our check in the amount of \$459.00 to cover the basic filing fee

(\$385.00 - utility small entity); surcharge for late filing (\$65.00); additional claims

fee (\$9.00); and

(c) A copy of Notice to File Missing Parts of Nonprovisional Application Filed Under

37 C.F.R. 1.53(b)-Filing Date Granted.

If the check is inadvertently omitted, or should any additional fees under 37 C.F.R.

§§ 1.16 to 1.21 be required for any reason relating to the enclosed materials, or should an

overpayment be included herein, the Commissioner is authorized to deduct or credit said fees

from or to Fulbright & Jaworski Deposit Account No.: 50-1212/UTSH:245USC1.

Please date stamp and return the accompanying postcard to evidence receipt of these

documents.

Respectfully submitted,

Gina N. Shishima

Reg. No. 45,104

Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P. 600 Congress Avenue, Suite 2400 Austin, Texas 78701 (512) 474-5201

Date:

January 21, 2004

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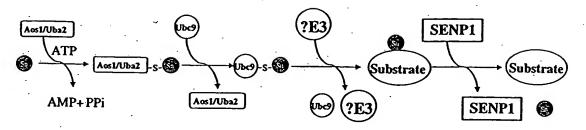
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(Only for new nonprovision	nal applications under 37 CFR 1.53(b)) E	xpres	s Mail Label No.	EV 32328	3229 (<u>us</u>
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See MPEP chapter 600 concerning utility patent application contents. 1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit on original and a deplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 101] - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Summary of the Invention - Claim(s) - Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets 10] 5. Oath or Declaration [Total Pages 2] a. Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) b. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Program (appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Program (appendix (if applicable) on the promotion of the promotion (if applicable) on the promotion of the prom					e table or Submission es); or pove copies ON PARTS document(s)) Power of Attorney applicable) Copies of IDS Citations		
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).			16.	(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.			
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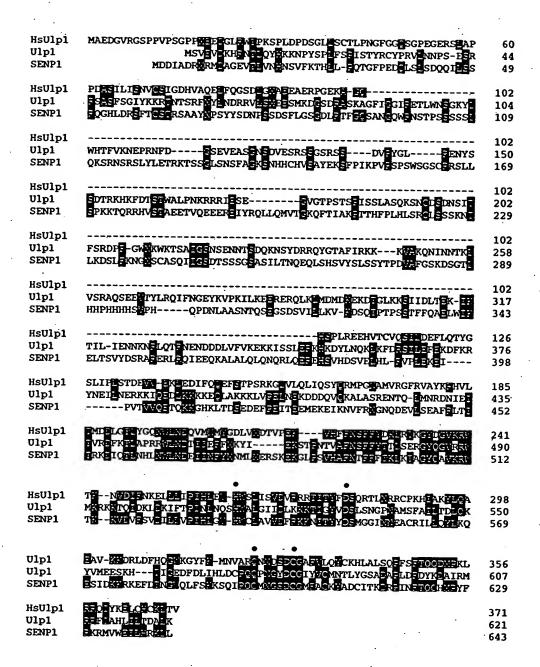
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Activation Conjugation Sentrinization De-sentrinization

FIG. 1. Sentrinization and de-sentrinization pathway.

61	acctagegactetteeggtgetgtgaaggeggtteeggttegegggtteeegggtttt gegtteeggeeegggeeggaaaceeettegeatggeageeggtteeggtteggaetttgt	
121	atetttgetaaagteagtgatgtgaaaagaettgaaatggatgatattgetgataggatg M D D I A D R M	.8
181	aggatggatgctggagaagtgactttagtgaaccacaactccgtattcaaaacccacctc R M D A G E V T L V N H N S V F K T H L	28
241	ctgccacaaacaggttttccagaggaccagctttcgctttctgaccagcagattttatct L P Q T G P P E D Q L S L S D Q Q I L S	48
301	tccaggcaaggacatttggaccgatcttttacatgttccacaagaagtgcagcttataat S R Q G H L D R S F T C S T R S A A Y N	68
361	CCaagctattactcagataatccttcctcagacagttttcttggctcaggcgatttaaga PSYYSDNPSSDSFLGSGDLR	88
421	acctttggccagagtgcaaatggccaatggagaaattctaccccatcgtcaagctcatct T F G Q S A N G Q W R N S T P S S S S S	108
481	ttacaaaaatcaagaaacagccgaagtctttacctcgaaacccgaaagacctcaagtgga L Q K S R N S R S L Y L E T R K T S S G	128
541	ttatcaaacagttttgcgggaaagtcaaaccatcactgccatgtatctgcatatgaaaaa L S N S F A G K S N H H C H V S A Y E K	148
601 :	tcttttcctattaaacctgttccaagtccatcttggagtggttcatgtcgtcgaagtctt S F P I K P V P S P S W S G S C R R S L	168
661	ttgagccccaagaaaactcagaggcgacatgttagtacagcagaagagacagttcaagaa L S P K K T Q R R H V S T A E E T V Q E	188
721	gaagaaagagagatttacagacagctgctacagatggtcacagggaaacagtttactata E E R E I Y R Q L L Q M V T G K Q F T I	208
781	gccaaacccaccacattttcctttacacctgtctcgatgtcttagttccagtaaaaat A K P T T H F P L H L S R C L S S S K N	228
841	actttgaaagactcactgtttaaaaatggaaactcttgtgcatctcagatcattggctct T L K D S L F K N G N S C A S Q I I G S	248
901	gatacttcatctggatctgccagcattttaactaaccaggaacagctgtcccacagt D T S S S G S A S I L T N Q E O L S H S	268
961	gtatattccctatcttcttataccccagatgttgcatttggatccaaagattctggtact V Y S L S S Y T P D V A F G S K D S G T	288
1021	cttcatcatccccatcatcaccactctgttccacatcagccagataacttagcagcttca L H H P H H H H S V P H Q P D N L A A S	308
1081	aatacacaatctgaaggatcagactctgtgattttactgaaagtgaaagattcccagact N T Q S E G S D S V I L L K V K D S Q T	328
1141	ccaactcccagttctactttcttccaggcagagctgtggatcaaagaattaactagtgtt P T P S S T F F Q A E L W I K E L T S V	348
1201	tatgattetegageaegagaaagattgegeeagattgaagaaeagaaggeattggeetta Y D S R A R E R L R Q I E E Q K A L A L	368
1261 1321	cagcttcaaaaccagagattgcaggagcgggaacattcagtacatgattcagtagaacta Q L Q N Q R L Q E R E H S V H D S V E L	388
1381	catcttcgtgtacctcttgaaaaggagattcctgttactgttgtccaagaaacacaaaaa H L R V P L E K E I P V T V V Q E T Q K	408
1441	aaaggtcataaattaactgatagtgaagatgaatttcctgaaattacagaggaaatggag K G H K L T D S E D E F P E I T E E M E	428
1501	aaagaaataaagaatgtatttcgtaatgggaatcaggatgaagttctcagtgaagcattt K E I K N V F R N G N Q D E V L S E A F	448
1561	Cgcctgaccattacacgcaaagatattcaaactctaaaccatctgaattggctcaatgat R L T I T R K D I Q T L N H L N W L N D	468
1621	gagatcatcaatttctacatgaatatgctgatggagcgaagtaaagagagggcttgcca E I I N F Y M N M L M E R S K E K G L P	488
1681	agtgtgcatgcatttaatacctttttcttcactaaattaaaaacggctggttatcaggca S V H A F N T F F F T K L K T A G Y Q A	508
1741	gtgaaacgttggacaaagaaagtagatgtattttctgttgacattcttttggtgcccatt V K R W T K K V D V F S V D I L L V P I	528
1801	cacctgggagtacactggtgtctagctgttgtggactttagaaagaa	548
1861	Y D S M G G I N N E A C R I L L Q Y L K caagaaagcattgacaagaaaaggaaaggtttgacaccaatggctggc	568
1921	Q ESIDKKRKEFDTNGWQLFS	588
1981	aagaaaagccagattcctcagcagatgaatggaagtgactgtgggatgtttgcctgcaaa K K S Q I P Q Q M N G S D C G M F A C K tatgctgactgtattaccaaagacagaccaatcaacttcacacagcaacacatgccatac	608
2041	Y A D C I T K D R P I N F T Q Q H M P Y ttccggaagacggatggtctgggagatcctccaccgaaaactcttgtgaagactgtctcac	628
2101	F R K R M V W E I L H R K L L * ttagcagaccttgaccatgtgggggaccagctetttgttgtctacagccagagaccttgg	643
2161	332020tactoctocoacacatatatatatatatatatatatatat	
	aaacagctgctcccagccctctgctgttgtaacacccttgatcctggaccaggccctggc	
2221	gagatgcattcacaagcacatctgcctttccttttgtatctcagatactatttttgcaaa	
2281	gaaactttggtgctgtgaaaggggtgagggacatccctaagctgaagagagag	
2341	ttcacttcttcagttctgccatcttgttttcaaagggctccagcctcactca	



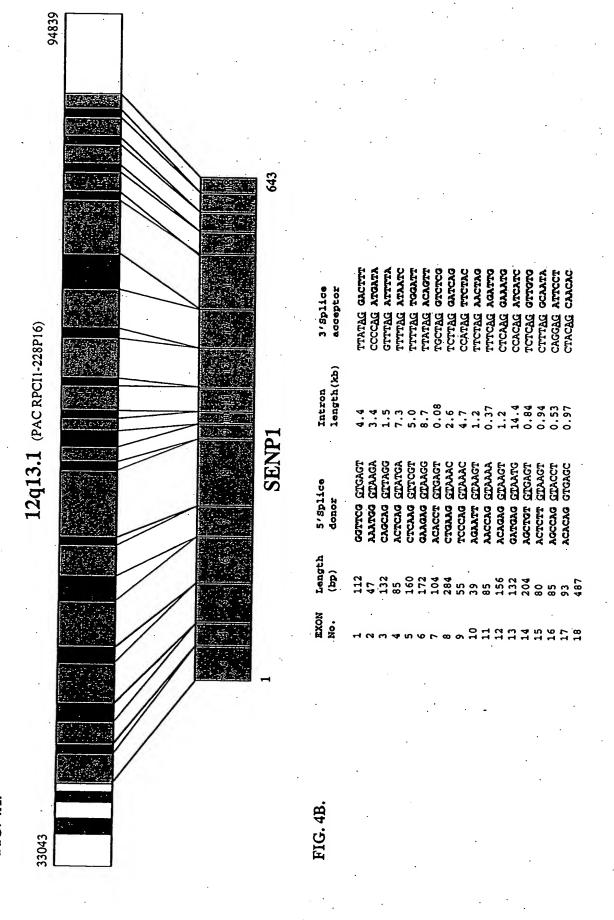


Fig. 5A

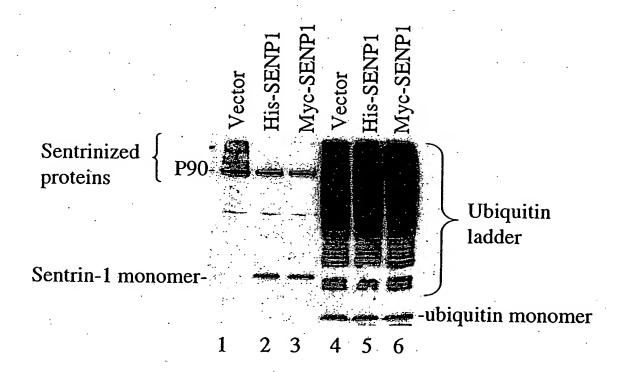
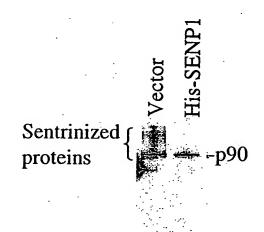


Fig. 5B



Sentrin-2 monomer-

Fig. 5C

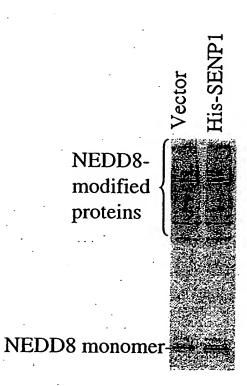
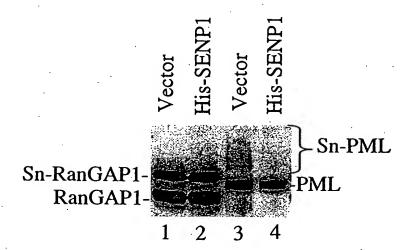


Fig. 6



H_SENP1	PIHLGVHW
H SENP2	PIHRKVHW
H_SENP3	PIHRKVHWPIHLEVHW
H_SENP4	PIHLEVHW
H_SENP5	PIHLEVHW
H_SENP6	PLNEAAHWFLAVVCFPGLEKPKYEPNPHYHENAVIQKCSTVEDSCISSSASEMESCSQNSSAKPVIKKML
H SENP7	PVNESSHWYLAVICFPWLEEAVYEDFPOTVSOOSOAOOSON
H SENP1	
H_SENP2	
H_SENP3	
H SENP4	
H_SENP5	
H SENP6	NKKHCIAVIDSNPGQEESDPRYKRNICSVKYSVKKINHTASENEEFNKGESTSQKVADRTKSENGLQNES
H_SENP7	
H_SENP1	CLAVVDF
H SENP2	SIMIDI
H_SENP3	SLISVDV
H_SENP4	SIISVDV
H_SENP5	SLITVTL
H_SENP6	LSSTHHTDGLSKIRLNYSDESPEAGKMLEDELVDFSEDQDNQDDSSDDGFLADDNCSSEIGQWHLKPTIC
H_SENP7	DNKTIDNDLRTTSTLSLSAEDSQSTE-SNMSVPKKMC
_	
•	• •
H_SENP1	RKKNITYYDSMGGINNEAC-RILLQYLKQESIDKKRKEFDTNGWOLFSKKSQ-IPOOMNGSDCGMFACKY
H_SENP2	RKKCLKYLDSMGQKGHRIC-EILLQYLQDESKTKRNSDLNLLEWTHHSMKPHEIPQQLMGSDCGMFTCKY
H_SENP3	RRRTITYFDSQRTLNRR-CPKHIAKYLQAEAVKKDRLDF-HQGWKGYFKMNVARQNNDSDCGAFVLQY
H_SENP4	RRRTITYYDSQRTVNRR-CPKHIAKYLQAEAVKKVRLDF-HQGWKGYFQMNVARQNNDSGCGAFVLQY
H_SENP5	SNRIISFYDSQGIHFKF-CVENIRKYLLTEAREKNRPEF-LQGWQTAVTKCIPQQKNDSDCGVFVLQY
H_SENP6	KQPCILLMDSLRGPSRSNVVKILREYLEVEWEVKKGSKRSFSKDVMKGSNPK-VPQQNNFSDCGVYVLQY
H_SENP7	KRPCILILDSLKAASVQNTVQNLREYLEVEWEVKLKTHRQFSKTNMVDLCPK-VPKQDNSSDCGVYLLQY

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